**REMARKS**

The foregoing Amendment corrects translational errors and conforms the claims to United States practice. No new matter is added.

Respectfully submitted,

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PATENT
Attorney Docket No. 401530/SHINSEI

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

KITAMURA et al.

Application No. Unassigned

Filed: January 16, 2002

For: EXCITATION CONTROL DEVICE AND EXCITATION CONTROL METHOD

Art Unit: Unassigned

Examiner: Unassigned

**AMENDMENTS TO CLAIMS AND ABSTRACT MADE VIA PRELIMINARY AMENDMENT**

*Amendments to existing claims*:

1. (Amended) An excitation control device~~,~~ comprising:

voltage detecting means for detecting a voltage of an output terminal of a synchronous machine which is connected to a power transmission system through a transformer;

reactive current detecting means for detecting a reactive current output from the synchronous machine;

voltage setting means for setting a reference voltage of the output terminal of the synchronous machine according to the reactive current detected by the reactive current detecting means, a reference voltage of an output side of the transformer, and a ~~function of~~ phase compensation ~~used~~ transfer function to quicken ~~the~~ attenuation of an electric power fluctuation; and

control means for controlling an exciting system of the synchronous machine according to a difference between the reference voltage set by the voltage setting means and the voltage of the output terminal of the synchronous machine detected by the voltage detecting means.

2. (Amended) ~~An~~ The excitation control device according to claim 1, wherein the reference voltage of the output terminal of the synchronous machine is set by the voltage setting means ~~by considering~~ based on the voltage of the output terminal of the synchronous machine detected by the voltage detecting means.

3. (Amended) An excitation control method, comprising ~~the steps of~~:

detecting a voltage of an output terminal of a synchronous machine which is connected to a power transmission system through a transformer;

detecting a reactive current output from the synchronous machine;

setting a reference voltage of the output terminal of the synchronous machine according to the reactive current, a reference voltage of an output side of the transformer, and a ~~function of~~ phase compensation ~~used~~ transfer function to quicken ~~the~~ attenuation of an electric power fluctuation; and

controlling an exciting system of the synchronous machine according to a difference between the reference voltage of the output terminal of the synchronous machine and the voltage of the output terminal of the synchronous machine.

4. (Amended) ~~An~~ The excitation control method according to claim 3, wherein ~~the step of~~ setting the reference voltage of the output terminal of the synchronous machine includes ~~the step of~~ setting the reference voltage of the output terminal of the synchronous machine ~~by considering~~ based on the voltage of the output terminal of the synchronous machine.

*Amendments to the abstract*:

ABSTRACT OF THE DISCLOSURE

A reference voltage ~~$V_{Gref}$~~ of an output terminal of a synchronous machine ~~21~~ is set according to a reactive current ~~$I_Q$~~ output from the synchronous machine ~~21~~, a reference voltage ~~$V_{Href}$~~ of the high voltage side of a transformer ~~22~~, and a ~~transfer function $F_{H1}(s)$ of~~ phase compensation ~~used~~ transfer function to quicken ~~the~~ attenuation of an electric power fluctuation.